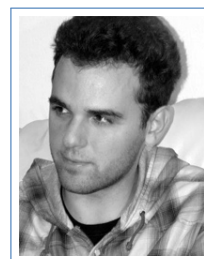


Davide Conigliaro

Curriculum Vitae et studiorum

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Personal Information

Date of Birth October 30, 1986
Place of Birth Verona (Italy)
Nationality Italian
Gender Male

Current Occupation

2013–now Ph.D. student in Computer Science at University of Verona, Italy and research fellow at Laboratory for Applied Ontology, LOA ISTC-CNR, Trento, Italy (Project VISCOSO: Detection of crisis in socio-material systems via visual-cognitive-social processes).

Education

2009–2012 **Master in Computer Engineering and Computer Science**, *Specific field in Visual Computing, University of Verona.*
Final mark 107/110
2005–2008 **Bachelor in Computer Engineering**, *University of Mantova, separate branch of Pavia State University.*
Final mark 103/110
2001–2005 **High School Scientific Diploma**, *High School E. Medi of Villafranca, Verona.*
Final mark 83/100

Master Thesis

Title *Early detection of epileptic seizures by multiresolution entropy-based methods*
Adviser Gloria Menegaz

Abstract The thesis presents a novel method for early detection of epileptic seizures from EEG data. Seizure detection was accomplished in three stages: multiresolution over-complete decomposition by the 'atrous algorithm, feature extraction by computing power spectral density and sample entropy values of sub-bands and detection by using z-test and support vector machine (SVM). Results highlight large differences between the subband sample entropy values for the epileptic and the control subjects, respectively, revealing a substantial increase of such parameter during the crisis. This enables high detection accuracy and specificity especially in beta and gamma bands (16-125 Hz).

Bachelor Thesis

Title *Sistema di scansione tridimensionale attraverso luce strutturata*
Adviser Luca Lombardi
Description Theoretical overview and practical implementation of a system able to perform the 3-D scan of an object in real time, by the use of structured light

Publications

Abstract

- Conigliaro D., Manganotti P., Menegaz G., **Early detection of epileptic seizures by entropy-based methods**. Proceedings of the BASP Frontiers Workshop 2013, Villars sur Ollon, Switzerland, Jan. 27-Feb. 1, (2013)

Conference papers

- Conigliaro D., Rota P., Setti F., Bassetti C., Conci N. Sebe N. Cristani M., **The S-Hock Dataset: Analyzing Crowds at the Stadium**. IEEE Conference on Computer Vision and Pattern Recognition, pp. 2039-2047, (CVPR 2015)
- Conigliaro D., Manganotti P., Menegaz G., **Multiscale sample entropy for time resolved epileptic seizure detection and fingerprinting**. IEEE Conference on Acoustics, Speech and Signal Processing (ICASSP 2014)
- Conigliaro D., Setti F., Bassetti C., Ferrario R., Cristani M., **Viewing the Viewers: a Novel Challenge for Automated Crowd Analysis**. ICIAP Workshops, volume 8158 of Lecture Notes in Computer Science, page 517-526. Springer, (ICIAP 2013)
- Conigliaro D., Setti F., Bassetti C., Ferrario R., and Cristani M., **ATTENTO: ATTENTION Observed for automated spectator crowd analysis**. In 4th International Workshop on Human Behaviour Understanding, 2013. associated with ACM Multimedia Conference (ACMMM 2013)
- Conigliaro D., Setti F., Bassetti C., Ferrario R., Cristani M., Rota P., Conci N., Sebe N. **Observing Attention**. (FISU 2013)

Journal papers

- Conigliaro D., Manganotti P., Menegaz G., **Early detection of epileptic seizures in sparse domains**. Neuroscience and Biomedical Engineering , vol. 2 , pp. 1-15, (2014)

Scientific Interests

Analysis of biomedical data, Computer Vision, Pattern Recognition, Crowd Analysis and Applied Ontology

Experience

2009–Present **Web developer**, PRIVATE, Verona.

Websites development for privates and companies

- www.poggiocaiar.it
- www.eleonoravolpato.it
- www.marcellomarchesini.it
- www.rivamarmi.it
- www.ramitraicapelli.it
- www.artpollutionfest.it
- www.passoaduearpaemarimba.com
- www.cantinalabacheta.com

2010–2011 **Educator**, SOCIAL SERVICES OF POVEGLIANO V.SE, Verona.

"Progetto Educativo Adolescenti". Consists in following two teenager in the realization of two separate projects: build a wooden toy for children and perform gardening activities.

Computer skills

Programming and markup languages

Advanced:

- MATLAB
- \LaTeX
- HTML
- CSS

Intermediate:

- VB.NET
- JAVA
- JAVASCRIPT

Basic:

- C/C++
- SQL
- PHP
- XML

Tools	FLARToolkit, ARToolkit, PRTools, EEGLAB
Operating System	All Microsoft OS's, Linux based system
Miscellaneous	Microsoft Office Suite, Open Office Suite, Adobe Photoshop, Adobe Flash, Microsoft Visual Web Developer, Adobe After Effects, Adobe Illustrator

Languages

Italian	Mother tongue	
English	Intermediate	<i>ISE 1 Integrated Skills in English (B1 of the CEFR)</i>

Qualities

Personal skills	Thanks to my open minded and my fast learning, I can adapt to several situations. I consider myself a creative person, with the ability to find innovative solutions to problems.
Interpersonal skills	Ability to work in group (developed during university projects and working within associations). Practice in interacting with children (animator and educator). Attention to the roles and the coordination of the group (sports as a player and coach). Ability to socialize (thanks to stage experience with other people).
Organizational skills	Ability to organize events (co-organizer of cultural and social events such as cineforum, exhibitions, country fairs, festivals and conferences). Budget management (managing the budget of the association to which I belong). Time optimization (programming time for study, sports, work and free time).
Hobby and Sport	Good ability to freehand drawing and creativity in computer graphics and photo editing. Digital creations (creating home videos, logos, websites layouts, banner advertising, etc.) Photography (for passion). I also like to fish and recently I learned to ride kayak. I have practiced several sports: Basket (1996-2002), Handball (2002-2005) and now I'm the coach of the Ultimate Frisbee team of Verona.
Driving license	Category B